

F/G. 1C

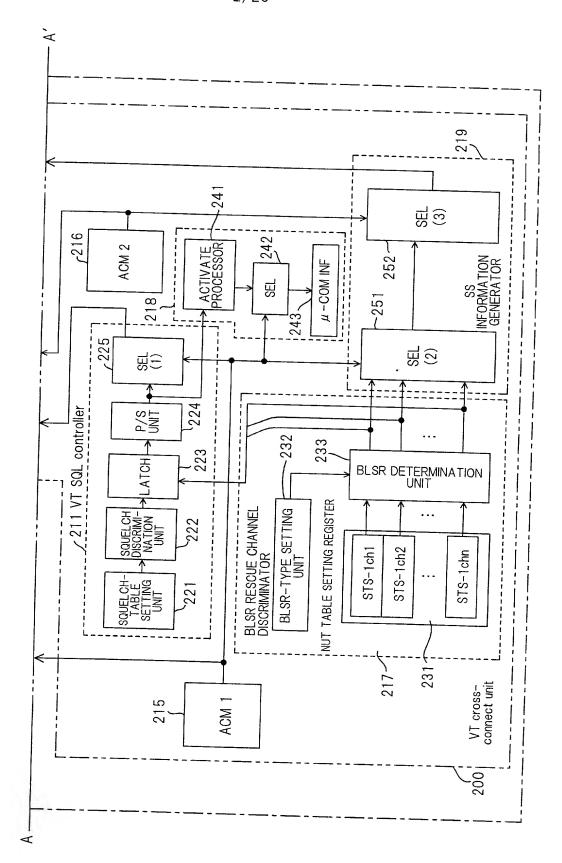


FIG. 2

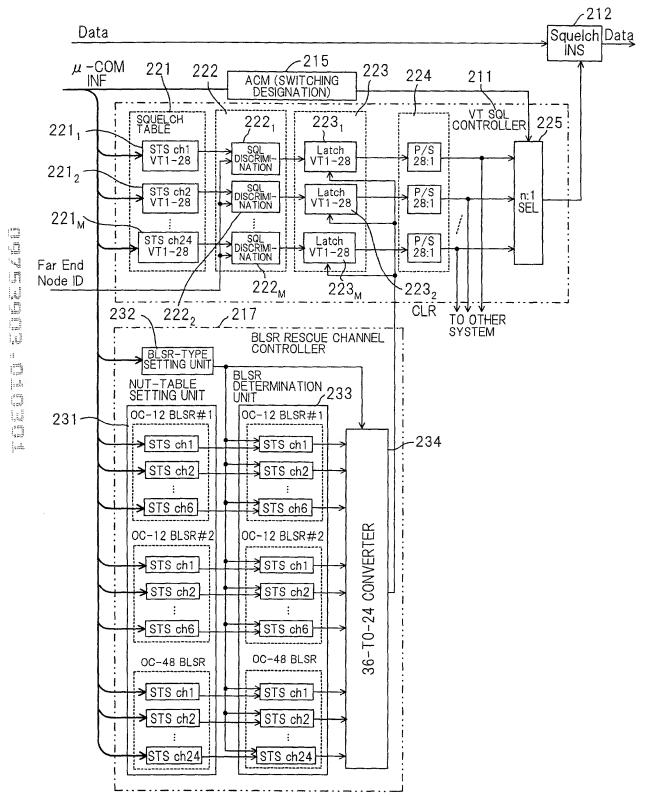


FIG. 3A

<CONFIGURATION FOR
OC-12 BLSR APPLICATION>

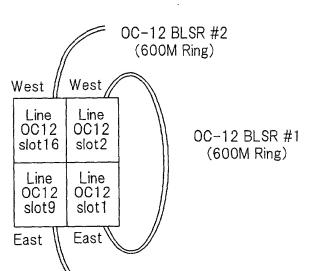
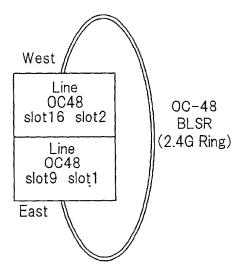


FIG. 3B

<CONFIGURATION FOR
OC-48 BLSR APPLICATION>



F/G. 4

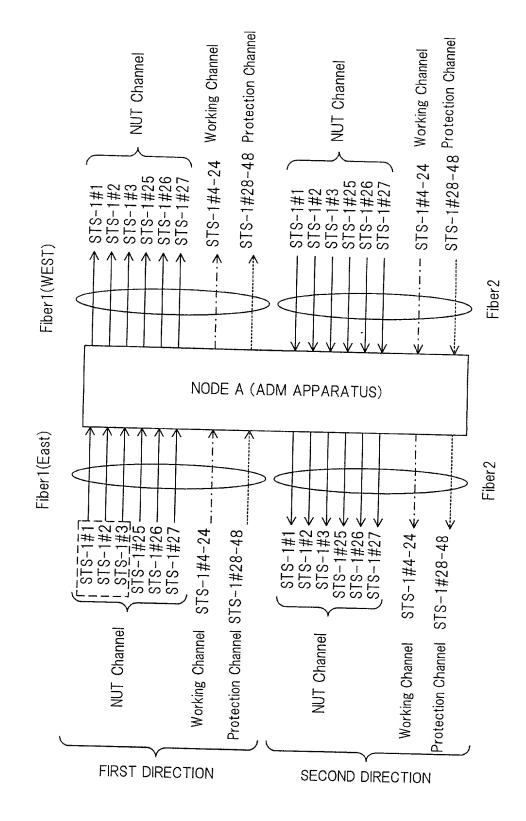


FIG. 5

(OC-1	2 BL	.SR #	1											
D15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
*	*	*	*	*	*	*	*	*	*	ch6	ch5	ch4	ch3	ch2	ch1
(OC-12 BLSR #2														
D15	14	13	12	11_	10	9	88	7	6	5	4	3	2	1	0
*	*	*	*	*	*	*	*	*	*	ch6	ch5	ch4	ch3	ch2	ch1
(OC-48 BLSR														
D15	14	13	12	11	10	9	8	7	6	5	4	_3_	2	1	0
*	*	*	*	ch12	ch11	ch10	ch9	ch8	ch7	ch6	ch5	ch4	ch3	ch2	ch1
OC-48 BLSR															
D15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0
*	*	*	*	ch24	ch23	ch22	ch21	ch20	ch19	ch18	ch17	ch16	ch15	ch14	ch13

"1"=NUT channel
"0"=not NUT channel

FIG. 6

BLSR Type						
OC12-2	OC12-1	OC-48				

OC-48: OC-48 BLSR DESIGNATION; "1": WHEN OC-48 BLSR; "0": NOT OC-48 BLSR OC-12-1: OC-12 BLSR #1 DESIGNATION; "1": WHEN OC-12 BLSR #1; "0": NOT OC-12 BLSR #1 OC-12-2: OC-12 BLSR #2 DESIGNATION; "1": WHEN OC-12 BLSR #2; "0": NOT OC-12 BLSR #2

7/26

FIG. 7A

APPLICATION	NUMBER OF NUT CHANNEL SETTING REGISTERS ACCORDING TO PRIOR ART (N)	NUMBER OF NUT CHANNEL SETTING REGISTERS ACCORDING TO PRESENT INVENTION (M)		
not BLSR		0		
OC-12 BLSR	192	6		
OC-48 BLSR		24		

(WHEN MAXIMUM VT ACCESS PROCESSING CAPACITY OF APPARATUS IS 10 Gbps)

FIG. 7B

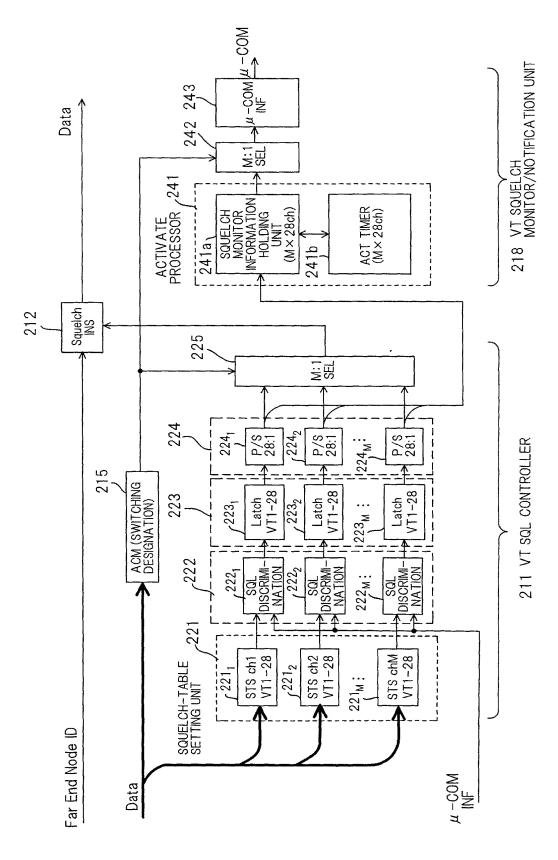
APPLICATION	NUMBER OF BLSR- TYPE SETTING REGISTERS ACCORDING TO PRIOR ART (N)	NUMBER OF BLSR- TYPE SETTING RÉGISTERS ACCORDING TO PRIOR ART (L)	
WHEN OC-12 BLSR, OC-48 BLSR OR ITEM OTHER THAN BLSR CAN BE SELECTED	192	2	

(WHEN MAXIMUM VT ACCESS PROCESSING CAPACITY OF APPARATUS IS 10 Gbps)

FIG. 7C

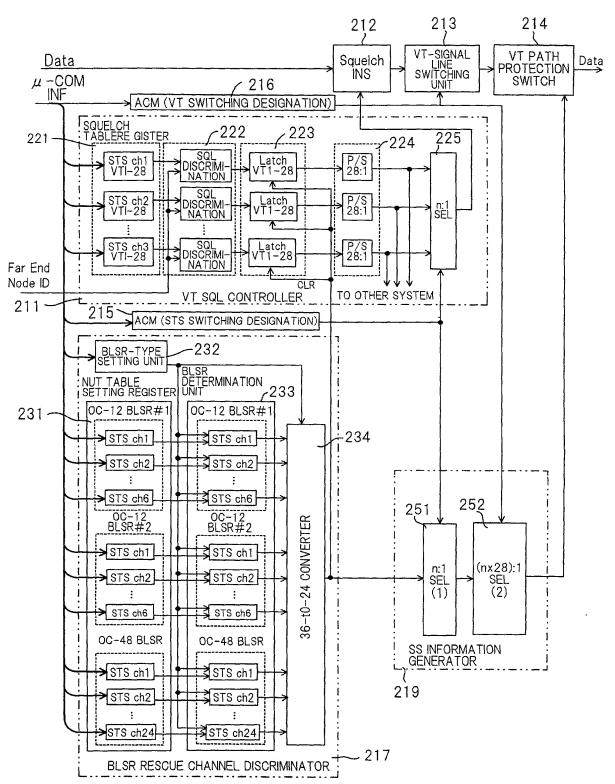
APPLICATION	NUMBER OF SQL ACTIVATE PROCESSING CHANNELS ACCORDING TO PRIOR ART (NxVT*)	NUMBER OF SQL ACTIVATE PROCESSING CHANNELS ACCORDING TO PRESENT INVENTION (MxVT*)			
not BLSR		0			
OC-12 BLSR	5376	168 (=6×28)			
OC-48 BLSR		672 (=24×28)			

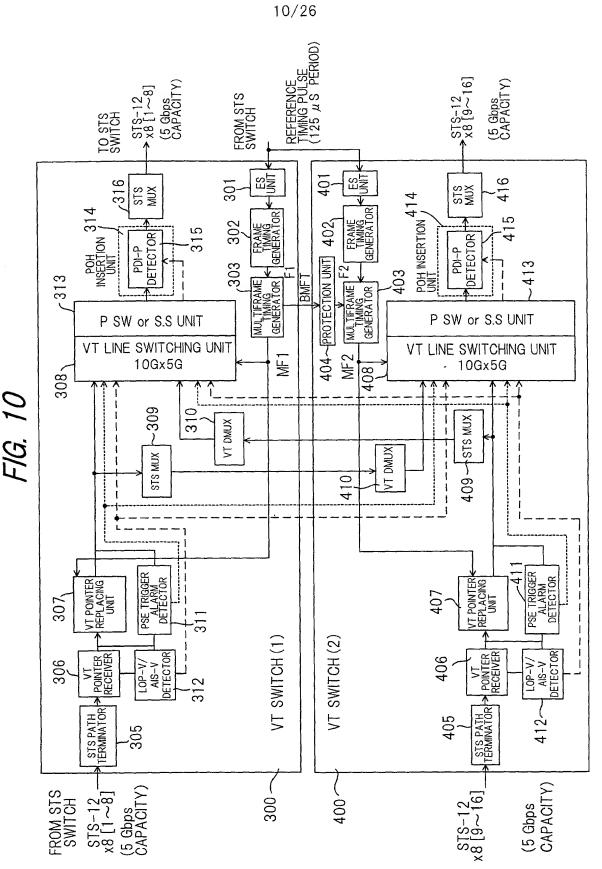
(WHEN MAXIMUM VT ACCESS PROCESSING CAPACITY OF APPARATUS IS 10 Gbps)



9/26

FIG. 9







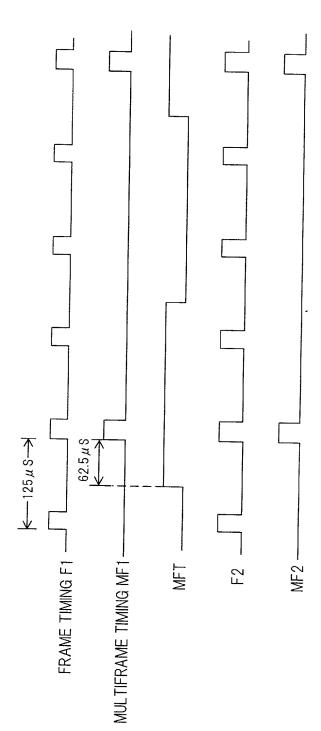


FIG. 12 PRIOR ART

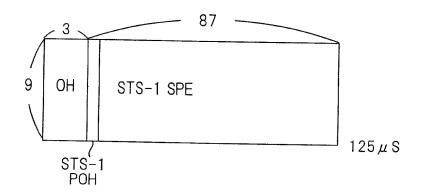


FIG. 13 PRIOR ART

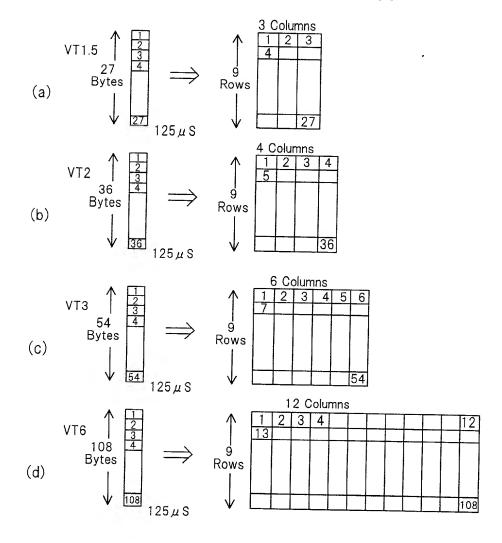


FIG. 14 PRIOR ART

-> STS-1 SPE Columns

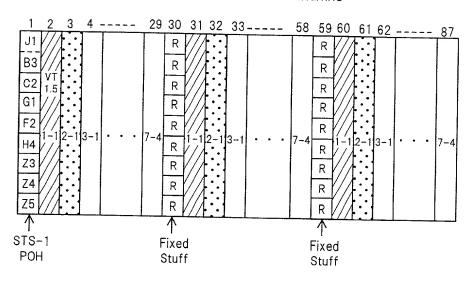


FIG. 15 PRIOR ART

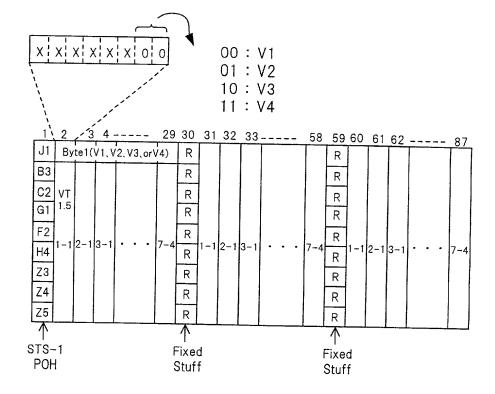


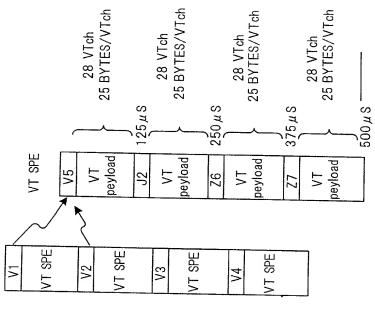
FIG. 16A PRIOR ART



VT Superframe 28 VTch 26 BYTES/VTch 28 VTch 26 BYTES/VTch 28 VTch 26 BYTES/VTch 26 BYTES/VTch 28 VTch VT Envelope Capacity: 104 (bytes/Superframe) $500\,\mu$ S 250 µ S $125 \mu S$ 375 µ Ś STS-1 SPE VT SPE VT SPE VT SPE VT SPE XXXXXX01 XXXXX10 **doxxxxxxx**

VT SPE & Payload Capacity

FIG. 16B PRIOR ART



VT peyload capacity : 100 (bytes/VT SPE)

FIG. 17 PRIOR ART

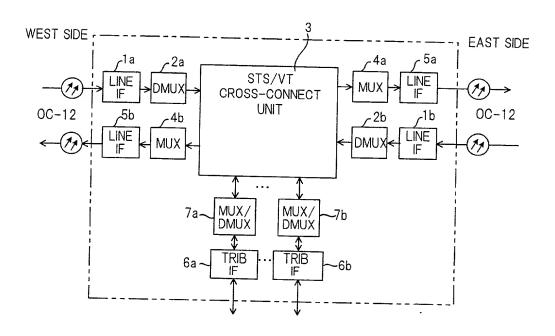


FIG. 18 PRIOR ART

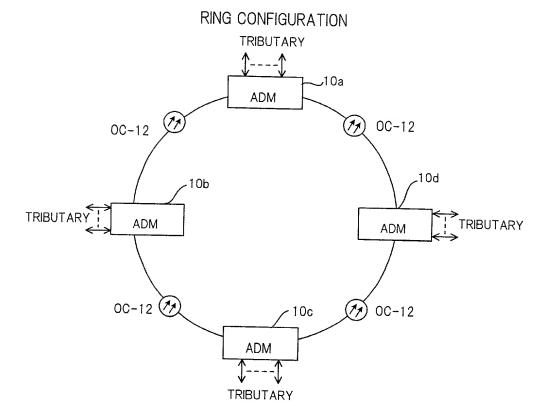


FIG. 19 PRIOR ART

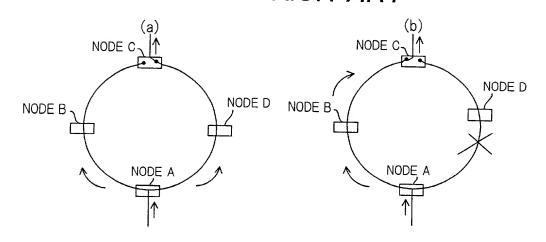


FIG. 20 PRIOR ART

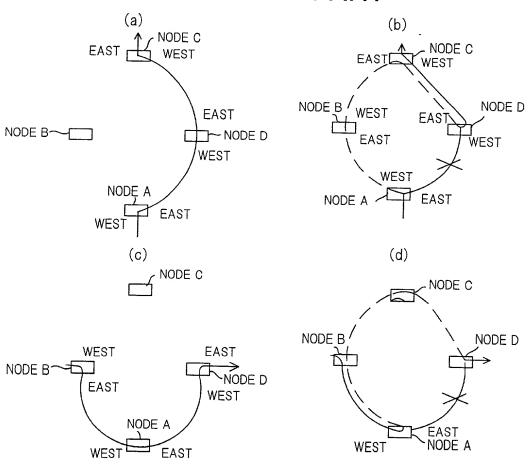


FIG. 21 PRIOR ART

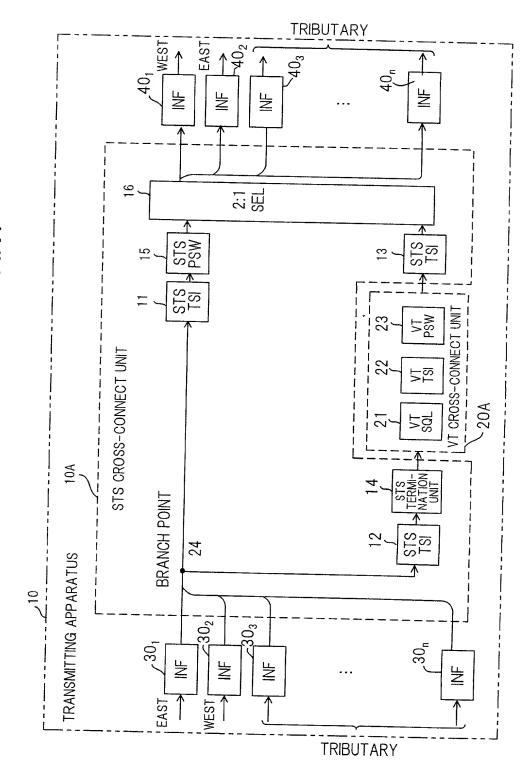


FIG. 22A PRIOR ART

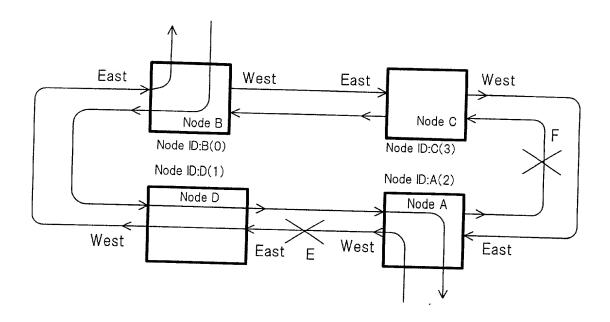


FIG. 22B PRIOR ART

Node B VT Squelch Table

East Side	West Side
2	0

FIG. 23 PRIOR ART

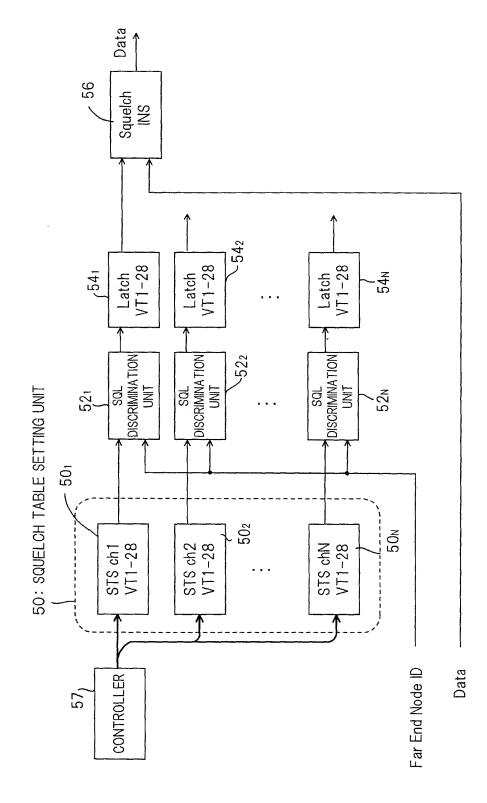


FIG. 24 PRIOR ART

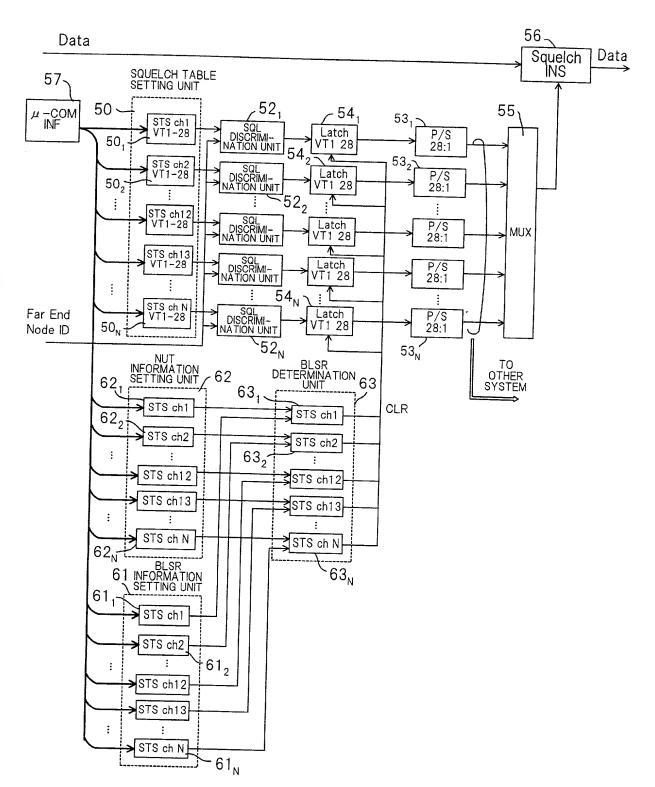


FIG. 25 PRIOR ART

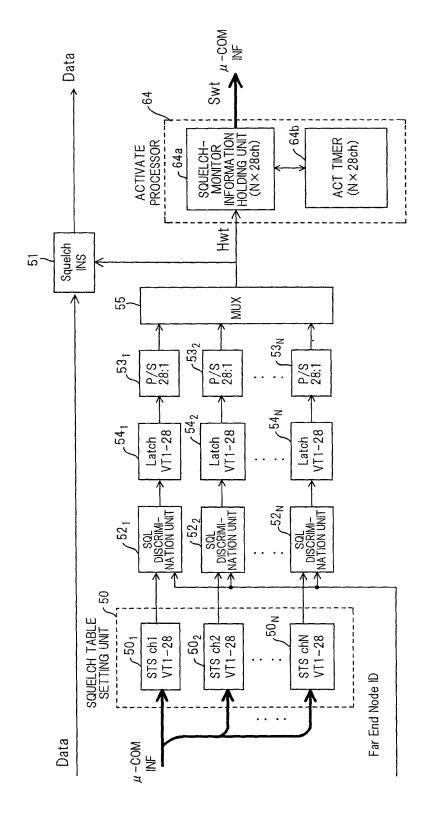


FIG. 26 PRIOR ART

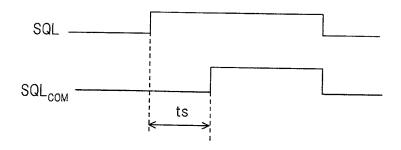


FIG. 27 PRIOR ART

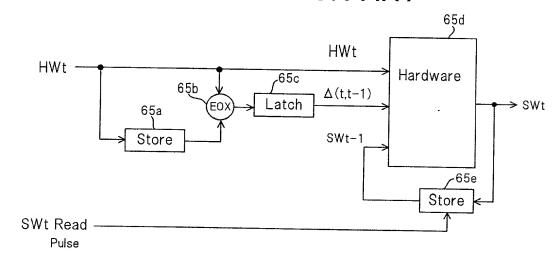


FIG. 28 PRIOR ART

SWt-1	∆(t,t−1)	HWt	SWt
0	0	0	0
0	0	1	1
0	1	0	1
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	0
1	1	1	0

23/26 FIG. 29 PRIOR ART

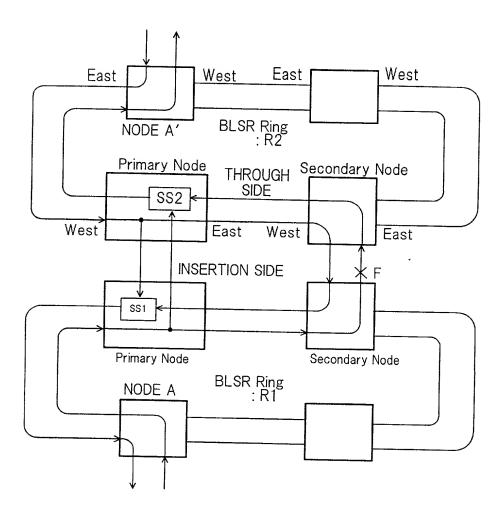
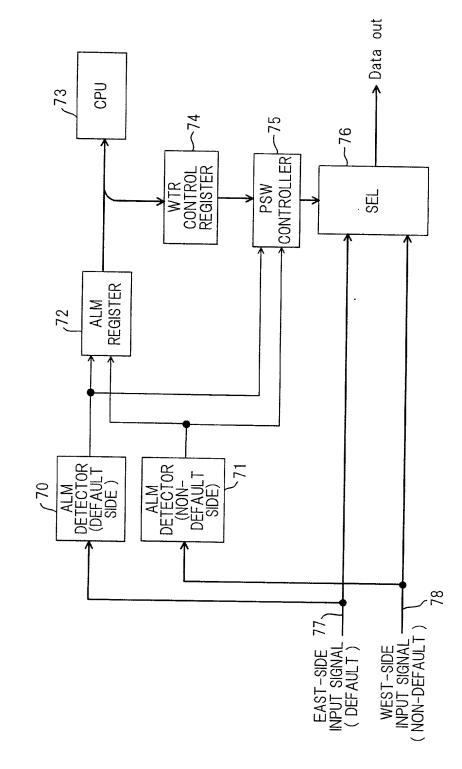


FIG. 30 PRIOR ART



Data

23

67

P/S UNIT

SERVICE SELECTOR INFORMATION SETTING UNIT (Nx28ch) ر 99 VT LINE SWITCHING UNIT (22 \sim 21 Squelch INS FIG. 31 PRIOR ART VT SQL 26 532 53_N 53₁ P/S 28:1 P/S 28.1 BLSR DETERMINATION 63 UNIT STS ch2 STS ch N ▼ STS ch1 54, Latch VT1-28 Latch VT1-28 Latch VT1-28 54_N SQL DISCRIMI-NATION UNIT SOL DISCRIMI-SOL DISCRIMI-NATION UNIT 63, r^{52}_{1} 52_N 20 7 62 BLSR INFORMATION SETTING UNIT (NUT INFORMATION SETTING UNIT SQUELCH TABLE SETTING UNIT STS ch N VT1-28 STS ch2 VT1-28 ¥ STS ch1 STS ch2 STS ch1 VT1-28 ▼ STS chN STS ch1 STS ch2 STS ch N 50_2 50° 62,4 7 19 61, Far End Node ID Data: . MO⊃'≝

